

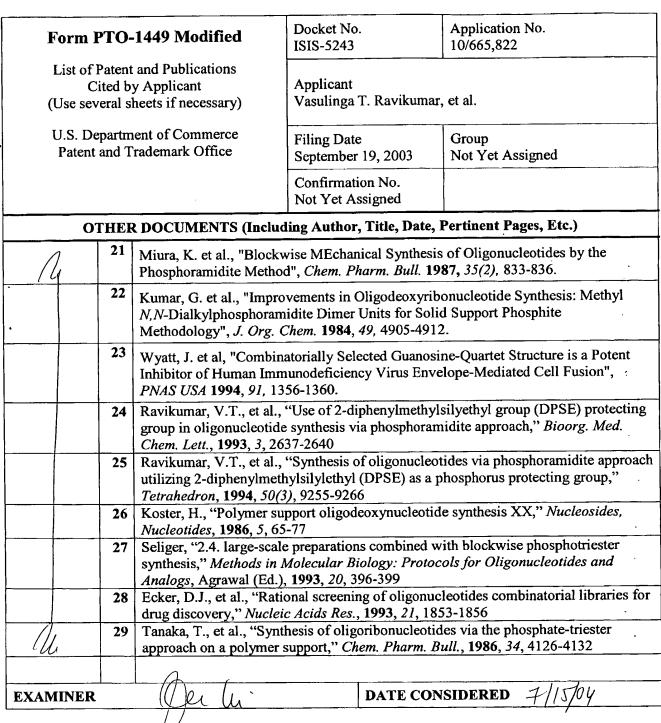


Form PTO-1449 Modified			Docket No. ISIS-5243	Application No. 10/665,822				
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Vasulinga T. Ravikumar, et al.						
		ent of Commerce rademark Office	Filing Date September 19, 2003	Group Not Yet Assigned				
			Confirmation No. Not Yet Assigned					
OT	THER	DOCUMENTS (Inc	luding Author, Title, Dat	te, Pertinent Pages, Etc.)				
Ch,	1	Celebuski, et al., "Sy on 2-(Triphenylsilyl	nthesis and Utility of a D ethanol", J. Org. Chem.,	NA Phosphorylating Agent Based 57, (1992), 5535-5538				
	2	Honda, et al., "2-Dip Internucleotidic Pho (1981), 2093-2096	henylmethylsilylethyl Gr osphates in Oligonucleoti	oup as a New Protecting Group of de Synthesis", Tetrahedron Letters,				
	3	March, "Advanced Organic Chemistry", John Wiley & Sons, New York, Third Edition, (1985), Chapter 1, pgs. 16-18 and Chapter 9, pgs. 237-239						
	4	Streitwieser and Heathcock, "Introduction to Chemistry", Second Edition, (1981) Chapter 15, 437-440						
	5	Takaku, et al., "Use of 1,1,1,3,3,3-Hexafluoro-2-Propyl Protecting Group in the Synthesis of DNA Fragments Via Phosphoramidite Intermediates", Tetrahedron Letters, 29, (1988), 81-84						
	6	Beaucage, S. et al., " Phosphoramidite Ap	Advances in the Synthesis proach", Tetrahedron 1992	of Oligonucleotides by the 2, 48(12), 2223-2311.				
	7	Block the Effects of	gonucleotides Antisense to Interleukin 1 in Cultures N of Clinical Investigation, In	o the Interleukin 1 Receptor mRNA furine and Human Fibroblasts and in ac. 1991, 88, 1190-1196.				
	8	Higgins, "Medical So	ciences", PNAS USA 1993,	, <i>90</i> , 9903-9905.				
	9	Reagent in the Solid	yer, R. et al., "3 <i>H</i> -1,2-Benzodithiole-3-one 1,1-Dioxide as an Improved Sulfurizing Reagent in the Solid-Phase Synthesis of Oligodeoxyribonucleoside Phosphorothioates", <i>J. Am. Chem. Soc.</i> 1990, <i>112</i> , 1253-1254.					
U	10	Iyer, R. et al., "The Automated Synthesis of Sulfur-Containing Oligodeoxyribonucleotides Using 3H-1,2-Benzodithiol-3-one 1,1-Dioxide as a Sulfur-Transfer Reagent", J. Org. Chem. 1990, 55(15), 4693-4699.						
EXAMINER	i	Do. Li		ONSIDERED 7/15/04				



Form PTO-1449 Modified			Docket No. ISIS-5243	Application No. 10/665,822				
List of Patent and Publications Cited by Applicant (Use several sheets if necessary)		Applicant Vasulinga T. Ravikumar, et al.						
	U.S. Department of Commerce Patent and Trademark Office		Filing Date September 19, 2003	Group Not Yet Assigned				
			Confirmation No. Not Yet Assigned					
0'	ГНЕР	R DOCUMENTS (Incli	uding Author, Title, Dat	te, Pertinent Pages, Etc.)				
a	11	Kamer, P. et al., "An E Diesters via the Schon	Efficient Approach Towar berg Reaction", Tetrahed	d the Synthesis of Phosphorothioate fron Letters 1989, 30(48), 6757-6760.				
	12	Kitajima, I. et al., "Ab Mice by Antisense Inh	lation of Transplanted HT ibiton of NF-kB", Science	TLV-I Tax-Transformed Tumors in ee 1992, 258, 1792-1795.				
	13	Offensperger, WB. et al., "In vivo Inhibition of Duck Hepatitis B Virus Replication and Gene Expression by Phosphorothioate Modified Antisense Oligodoxynucleotides", The EMBO Journal 1993, 12(3), 1257-1262.						
	14	Rao, M.V. et al. "Dibenzoyl Tetrasulphide - A Rapid Sulphur Transfer Agent in the Synthesis of Phosphorothioate Analogues of Oligonucleotides", <i>Tetrahedron Letters</i> 1992 , <i>33</i> (33), 4839-4842.						
	15	Simons, M. et al., "Antis Muscle Cell Accumulati	sense c-myb Oligonucleotides Inhibit Intimal Arterial Smooth on in vivo", Nature 1992, 359, 67-70.					
	16	Vu, H. et al., "Internucleotide Phosphite Sulfurization with Tetraethylthiuram Disulfide. Phosphorothioate Oligonucleotide Synthesis via Phosphoramidite Chemistry", <i>Tetrahedre Letters</i> 1991, 32(26), 3005-3008.						
	17	Linked Oligonucleotide	Analogs", in "Oligodeoxyr	halitis Expression Using Covalently nucleotides as Antisense Inhibitors of 18-21, 1989, Sheraton Potomac Inn,				
	Wright, P. et al., "Large Scale Synthesis of Oligonucleotides via Phosphoramin Nucleosides and a High-loaded Polystyrene Support", <i>Tetrahedron Letters</i> 199, 3373-3376.							
	19	Wolter, A., et al., "Polyn Henhectacosa Deoxynu Nucleosides & Nucleoti	cleotide by Use of a Dimeri	le Synthesis XX: Sysnthesis of c Phosophoramidite Synthon",				
M	20	Bannwarth, W., "Synti Using Dimer Units and 1985, 68, 1907-1913.	hesis of Oligodeoxynucleo Different Phosphorous-Pro	otides by the Phosphite-Triester Methodotecting Groups", Helvetica Chimica Acta				
EXAMINER	<u> </u>	(Des lis	DATE C	ONSIDERED 7/5/04				





© 2003 WW



Sheet 4 of 6

© 2003 WW

Form PTO-1449 Modified				Docket No. Application No. 10/665,822			
List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office			Applicant Vasulinga T. Ravikumar, et al.				
			Filing Date September 19, 2003 Group Not Yet A		Assigned	Assigned	
				Confirmation No. Not Yet Assigned			
		U. S	S. PATENI	DOCUMENTS			
Examiner Initial		Document No.	Date	Name		Class	Subclass
·	30	4,458,066	7/3/84	Caruthers, et al.		536	27
	31	4,490,300	03/1990	Urdea, et al.		536	28.5
	32	4,725,677	2/16/88	Koster, et al.		536	27
	33	4,845,205	7/4/89	Huynh Dinh, et		536	28
	34	5,113,005	5/12/92	Celebuski		556	449
	35	3,687,808	08/29/72	Merigan Jr. et al		195	28N
	36	4,806,463	02/21/89	Goodchild et al.		435	5
	37	5,113,005	05/12/92	Celebuski		556	449
N	38	5,159,095	10/27/92	Celebuski		556	436
	39	4,458,066	07/03/84	Caruthers et al.	whate	-536	27
a	40	5,264,423	11/23/93	Cohen et al.		514	44
	41	5,276,019	01/04/94	Cohen et al.		514	44
	42	4,786,724	11/1998	Letsinger		-536	27
	43	5,510,240	04/1996	Lam, et al.		514	44
	44	5,571,902	11/1996	Ravikomar, et al.			
	45	5,608,046	03/1997	Cook, et al.		536	25.3
	46	5,610,289	03/1997	Cook, et al.		536	25.34
M	47	5,614,621	03/1997	Ravikumar, et al.		536	25.34
EXAMINE	R	Den Ci		DATE CONSIDE	RED	7/15	104



Sheet 5 of 6

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary)				Docket No. Application No. 1SIS-5243 10/665,822		
				Applicant Vasulinga T. Ravikumar, et al.		
U.S. Department of Commerce Patent and Trademark Office			Filing Date September 19, 2003	t Assigned		
			Confirmation No. Not Yet Assigned	1		
	U	. S. PATENT	T DOCUMENTS			
	Document No.	Date	Name		Class	Subclass
48		12/14/99	Ravikumar, et al.		536	22.1
49	5,847,106	12/1998	Ravikumar, et al.		536	25.34
50	6,211,350	04/2001	Ravikumar, et al.		536	23.1
51	6,486,312 B2	11/26/02	Ravikumar, et al.		536	25.3
					<u> </u>	
ļ					 	
ļ						
<u> </u>						
 						
<u> </u>				·	-	-
	_			,		
 						
R (Merti		DATE CONSIDE	DFN	7/1/	114
	48 49 50 51	U Document No. 48 6,001,982 49 5,847,106 50 6,211,350 51 6,486,312 B2	U. S. PATENT Document No. Date	Isis-5243 Applicant Vasulinga T. Raviki e several sheets if necessary) S. Department of Commerce stent and Trademark Office U. S. PATENT DOCUMENTS Document No. 48 6,001,982 12/14/99 Ravikumar, et al. 50 6,211,350 04/2001 Ravikumar, et al. 51 6,486,312 B2 11/26/02 Ravikumar, et al.	The P10-1449 Modified It of Patent and Publications Cited by Applicant e several sheets if necessary) S. Department of Commerce Itent and Trademark Office U. S. PATENT DOCUMENTS Document No. 48 6,001,982 12/14/99 Ravikumar, et al. 49 5,847,106 12/1998 Ravikumar, et al. 50 6,211,350 04/2001 Ravikumar, et al. 51 6,486,312 B2 11/26/02 Ravikumar, et al.	SISIS-5243 10/665,822



Sheet 6 of 6

Form PTO-1449 Modified

List of Patent and Publications Cited by Applicant (Use several sheets if necessary)

U.S. Department of Commerce Patent and Trademark Office

Docket No. Application No. 10/665,822 ISIS-5243

Applicant

Vasulinga T. Ravikumar, et al.

Filing Date

Group September 19,

2003

Not Yet Assigned

Confirmation No. Not Yet Assigned

FOREIGN PATENT DOCUMENTS

Examiner					Trans	Translation	
Initial		Document No.	Date	Country	YES	NO	
· (4	52	WO 91/04983	4/18/91	PCT			
•	53	WO 92/21689	12/10/92	PCT			
	54	WO 89/11486	11/1989	PCT			
	55	WO 93/21203	10/1993	PCT			
	56	WO 94/06811	03/1994	PCT			
Ne	57	WO 95/13833	05/1995	PCT			
-							
			 				
			 				
			+				
	<u> </u>						
EXAMINER		11/11/1	1	DATE CONSIDER	RED 4/16	104	

© 2003 WW